## EXHIBIT 33 REDACTED

### GDN bidding dynamics

PRIVILEGED AND CONFIDENTIAL

#### Bernanke

- Margin optimization technology to significantly improves Adwords win rate and revenue on AdX
- Adwords \* Adx publishers
  - Revenue
  - Impressions
  - Neutral CPD

#### Pre-Bernanke world

- We run the internal auction, pick the 2 highest bids b1 and b2
- Take the buy-side revshare out and submit these to the Adx auction
  - o b1
  - o b2 \*
- Adx runs a second price auction and returns price c to the winner (say Adwords)

Adwords second priced itself of impressions i.e.
Payout = c
Revenue = file
If Adwords only submitted 1 bid, payout dropped file
adwords profit

# Reinvesting profits (in ads) Submit only 1 bid Instead of submitting b1 submit b1 \* α, where α >= O Additional impressions won all have so b1 < c / Payout = c Old Revenue = Revenue = Results in a margin Find α such that overall margin

#### No first pricing logic (optional slide for tech-talk)

- Revenue = Rev
- Second price auction mechanics: buyer pays the minimum bid to win (i.e., nearest competition)
- In the Bernanke world, what is the minimum bid to win?

  - Minimum bid to win =
- Launched for all opt advertisers for compatibility with HDMI



